

CLAIMS

1. A thermoplastic polyester resin composition comprising an epoxy compound (b) having lactone chains and a thermoplastic polyester resin (a).

2. The thermoplastic polyester resin composition according to claim 1, wherein the thermoplastic polyester resin (a) comprises a unit derived from an aliphatic diol, a cycloaliphatic diol or a mixture thereof, and an aromatic dicarboxylic acid.

3. The thermoplastic polyester resin composition according to claim 2, wherein the thermoplastic polyester resin (a) comprises a polyethylene terephthalate, a poly(1,4-butylene terephthalate), a poly(1,4-cyclohexanedimethanol terephthalate), or a mixture thereof.

4. The thermoplastic polyester resin composition according to any one of claims 1 to 3, wherein the thermoplastic polyester resin (a) comprises the thermoplastic polyester resin (a') alone, a thermoplastic polyester resin (a') alone in which flexible segment units are included in a molecular chain of the thermoplastic polyester resin (a), or a mixture of the thermoplastic polyester resin (a) and the thermoplastic polyester resin (a').

5. The thermoplastic polyester resin composition

according to claim 4, wherein the flexible segment unit comprises a unit derived from a polyoxyalkyleneglycol, an aliphatic hydroxycarboxylic acid, an aliphatic dicarboxylic acid, or a mixture thereof.

6. The thermoplastic polyester resin composition according to any one of claims 1 to 5, wherein the epoxy compound (b) has a cycloaliphatic epoxy structure.

7. The thermoplastic polyester resin composition according to claim 6, wherein the epoxy compound (b) is used in a range of 0.1 to 3.5% by weight based on 100% by weight of the thermoplastic polyester resin (a).

8. The thermoplastic polyester resin composition according to any one of claims 1 to 7, characterized by further comprising a catalyst compound (c).

9. The thermoplastic polyester resin composition according to claim 8, wherein the catalyst compound (c) comprises a salt containing at least one of an alkali metal ion, an alkali earth metal cation, and a halogen ion and does not include a carbon-phosphorus bond.

10. The thermoplastic polyester resin composition according to claim 9, wherein the catalyst compound (c) is used in a range of 0.01 to 1% by weight based on 100% by weight of a sum of the thermoplastic polyester resin (a) and the epoxy compound (b).

11. A molded article, which is obtained by molding the thermoplastic polyester resin composition according to any one of claims 1 to 10.